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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,767	12/21/2004	David Lior	1133/16	4902
Mark M Friedr	7590 09/05/200 nan	7	EXAM	INER
Bill Polkinghorn			KIM, TAE JUN	
9003 Florin Wa Upper Marblbo			ART UNIT	PAPER NUMBER
••	,		3746	
			MAIL DATE	DELIVERY MODE
			09/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
Office Action Summary	10/518,767	LIOR, DAVID
Office Action Summary	Examiner	Art Unit
The MAN INC DATE And	Ted Kim	3746
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	ON. timely filed m the mailing date of this communication. JED (35 U.S.C. & 133)
Status		
1) Responsive to communication(s) filed on 21 De	ecember 2004.	•
<u> </u>	action is non-final.	
3) Since this application is in condition for allowan	ce except for formal matters, p	rosecution as to the merits is
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	n from consideration	
5) Claim(s) is/are allowed.	m nom concluciation.	
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) 1-23 are subject to restriction and/or e	lection requirement.	
Application Papers		
9) The specification is objected to by the Examiner		
10) The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correction		•
11) The oath or declaration is objected to by the Exa		
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents	hougheen received	
1. Certified copies of the priority documents2. Certified copies of the priority documents		tion No
3. Copies of the certified copies of the priori		
application from the International Bureau	•	ved in this National Stage
* See the attached detailed Office action for a list of	• //	ved.
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	•	
Attachment(s)		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summar	v (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	. Paper No(s)/Mail I	Date
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application
Patent and Trademark Office		

Application/Control Number: 10/518,767

Art Unit: 3746

DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-9, 18, 19 drawn to an engine with a rotating assembly including a primary compressor, an inner casing and a compressor-driving nozzle wheel and a substantially annular flame holder.

Group II, claim(s) 10-12, drawn to an engine with a combustion chamber configured to counteract axial backflow.

Group III, claim(s) 13, drawn to a method of reducing NOx emissions by mixing a combustible mixture including exhaust gas and burning the mixture.

Group IV, claim(s) 14-17, drawn to a method of cooling a blade.

Group V, claim(s) 20, drawn to an engine with blades that define a plurality of nozzles, each nozzle having a convergent-divergent shape.

Group VI, claim(s) 21-22, drawn to an engine which lacks stator guide vanes between the wheels.

Group VII, claim(s) 23, drawn to an engine where at least one of the primary compressor and nozzle wheel is partly blocked.

Art Unit: 3746

The inventions listed as Groups I-VII do not relate to a single general inventive 2. concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is distinct from the other groups because it claims the substantially annular flame holder - which the other groups do not. Group II is distinct from the other groups because it addresses axial backflow in the combustion chamber - which the other groups do not. Also, there is no requirement of a rotating assembly or nozzle. Group III is distinct from the other groups as it deals with a method of reducing NOx emissions by mixing a combustible mixture including exhaust gas and burning the mixture - the other groups do not deal with exhaust gas and the engine could be any type of engine and there are no rotating elements. Group IV is distinct as it deals with cooling the blades - which the other groups do not address: Group V is distinct as it deals with the blades that define a plurality of nozzles, each nozzle having a convergent-divergent shape -- which the other groups do not address. Group VI is distinct as it deals with an engine which lacks stator guide vanes between the wheels -- which the other groups do not. Group VII is distinct as it deals with an engine where at least one of the primary compressor and nozzle wheel is partly blocked -- which the other groups do not.

Applicant is advised that the reply to this requirement to be complete must include

(i) an election of a species or invention to be examined even though the requirement be

Art Unit: 3746

traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Ted Kim whose telephone number is 571-272-4829. The Examiner can be reached on regular business hours before 5:00 pm, Monday to Thursday and every other Friday.

The fax number for the organization where this application is assigned is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ehud Gartenberg, can be reached at 571-272-4828. Alternate inquiries to Technology Center 3700 can be made via 571-272-3700.

Art Unit: 3746

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). General inquiries can also be directed to the Patents Assistance Center whose telephone number is 800-786-9199. Furthermore, a variety of online resources are available at http://www.uspto.gov/main/patents.htm

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